## PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	licant's or agent's file r 0868 WO	reference	FOR FURTHER A	CTION	See Form PCT/IPEA/416	
	rnational application No.	о.	International filing date 12.07.2004	(day/month/year)	Priority date (day/mont/ 23.07.2003	n/year)
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1 '	licant ALTO SA et al.		•			
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1.	Authority under Ar	rticle 35 and tran	smitted to the applicar	port, established by this according to Article 36.	International Prelimina	iry Examining
2.			f 6 sheets, including ti			
3.		nis report is also accompanied by ANNEXES, comprising:				
	a. Sent to the	applicant and to	the International Bure	au) a total of sheets, as	iollows:	ric of this report
	and <i>l</i> or Admini	sheets containin istrative Instructi	ig rectifications authori ons).	ngs which have been am zed by this Authority (see	9 Hule 70.16 and Secti	on 607 of the
	beyond	which supersed the disclosure l emental Box.	e earlier sheets, but w In the international app	hich this Authority consideration as filed, as indication	lers contain an amend ated in item 4 of Box N	ment that goes o. I and the
	b. (sent to the	e International Bu	es related thereto, in o	ndicate type and number omputer readable form o	niy, as indicated in the	) , containing a Supplemental
	Box Relatir	ng to Sequence t	Listing (see Section 80	2 of the Administrative Ir	nstructions).	
4.	This report contain	ns indications rel	ating to the following It	ems:		
	⊠ Box No. I	Basis of the opin	ion			
		Priority				
				rd to novelty; inventive s	tep and industrial appli	cability
	☐ Box No. IV	Lack of unity of it	nvention	N with record to novelty	inventive eten or indus	trial
	6	applicability; cita	tions and explanations	<ul> <li>with regard to novelty, supporting such statement</li> </ul>	ent	uliqi
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	⊠ Box No. VIII (	Certain observat	ions on the internation	ai application		
Date	of submission of the d	lemand		Date of completion of this	report	
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	e and mailing address		ıl	Authorized Officer		Contract Principles
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10/565567 IAP20 Rec'd FOLLING 25 JAN 2006 International application No. PCT/IB2004/002345

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

_	Box	x No. I Basis of the report				
1.	Witl	h regard to the language, thi d, unless otherwise indicated	is report is based on the international application in the language in which it was under this item.			
		which is the language of a to international search (und publication of the international search).	slations from the original language into the following language, translation furnished for the purposes of: der Rules 12.3 and 23.1(b)) ational application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)			
2.	hav	re been furnished to the recei	the international application, this report is based on (replacement sheets which iving Office in response to an invitation under Article 14 are referred to in this re not annexed to this report):			
	Des	cription; Pages				
	1-9	•	as originally filed			
	Clai	ms, Numbers				
	1-10		as originally filed			
	Drav	Drawings, Sheets				
	1/2-2	2/2	as originally filed			
		a sequence listing and/or an	ny related table(s) - see Supplemental Box Relating to Sequence Listing			
3.		The amendments have result the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (speed any table(s) related to se	ecify):			
1.	had Sup	This report has been establing not been made, since they have plemental Box (Rule 70.2(c)) the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (speciary table(s) related to se	ecify):			
	*	If item 4 applies, so	ome or all of these sheets may be marked "superseded."			

Form PCT/IPEA/409 (January 2004)

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2004/002345

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims

Claims

2-7,10

No:

No:

1,9

Inventive step (IS)

Yes: Claims

2-7,10

Industrial applicability (!A)

Yes: Claims

1-10

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

### Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

## Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

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Re Item V.

#### Prior art:

The following documents (D) are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: WO-A-0247356 D2: EP-A-1263230 D3: US-A1-2002048367

#### Noveity:

The present application does not meet the requirements of Article 33(1) PCT, because the subject-matter of present independent claim 1 and 9 is not new in the sense of Article 33(2) PCT.

Document D1 discloses a method and a system for monitoring the usage of a service by a communication device coupled to a tamper resistant module, comprising:

- a plurality of encrypted data flows
- successive decryption steps of the data flow by a first key, encrypted in the data flow and decrypted in the tamper resistant module (see D1 p. 9 I.17-21) by a second key, stored or derived in the tamper resistant module (see D1, p. 3, I.16-29; page 4, line 31 to page 7 line 19).

The method and system disclosed in D1 comprise a counting step to count the number of times the encryption key is decrypted and the amount of data flow, which has been decrypted (see D1, p. 8, l. 12-20).

The subject-matter of independent claim 9, referring to a module related to the method in independent claim 1 is also not new for the same reasons as set out above for independent claim 1.

#### Inventive step:

The present application does not meet the requirements of Article 33(1) PCT, because the subject-matter of independent claim 10 and of dependent claims 2-8 does not involve an inventive step in the sense of Article 33(3) PCT.

#### International application No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

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#### Claim 10:

The subject matter of independent claim 10 does not involve an inventive step, as it is obvious to a person skilled in the art that a computer program can be used to perform the counting step of the method defined in the subject-matter of independent claim 1.

#### Claim 2:

The subject-matter of claim 2, related to the storing of a predetermined fixed number in the tamper resistant module, the incrementation of a counter and the comparison of the counter number with a predetermined fixed number, is not inventive as in D1 p. 8, l. 12-20, it is disclosed a similar system, where the counter is decremented and compared to zero. Therefore the subject matter of dependent claim 2 is obvious for a person skilled in the art, aware of the description of D1 p. 8, l.12-20.

#### Claim 3:

The person skilled in the art, aware of D1, will also be aware of D3, p. 4, paragraph 58 and 59, where it is described a method including a command sent to the tamper resistant module for the renewing of the key.

#### Claim 4:

A method for updating, resetting the counter is described in D2 (col. 9, I.40 - col.10, I.11; D2 col. 15 I. 46- col. 16, I. 19)

#### Claim 5:

The command of dependent claim 3 and 4 is encrypted by a third key known in the tamper resistant module. This is described in D3 p. 3 paragraph 38 and page 4 paragraph 58-59 and also D2 col. 10, I.6-11.

#### Claim 6:

The subject matter of dependent claim 6 is also obvious, as it is obvious that the action undertaken after the comparison of the counter, is the completion of decryption steps.

#### Claim 7:

A periodical update of the first key is described in D3, page 4, paragraph 58.

#### Claim 8:

The subject matter of dependent claim 8 is obvious to a person skilled in the art, as it is obvious that commands are transmitted to the tamper resistant module and that there is

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

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a program for authorising the transmission that does not necessarily read the content.

Article 33(4) PCT: the subject-matter of claims 1-10 is considered to be industrially applicable.

Re Item Part VII.

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D3 are not mentioned in the description.

The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

In order to facilitate the examination of the conformity of the amended application with the requirements of Article 34(2)(b) PCT, the applicant is re-quested to clearly identify the amendments carried out, no matter whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based (see also Rule 66.8(a) PCT).

#### Re Item Part VIII.

The application does not meet the requirements of Article 6 PCT, because the subject matter of independent claim 1 and of dependent claim 8 is not clear.

In particular, in claim 1 I.2 the tamper resistant module refers to a desired effect. Moreover, the wording of claim 1, I.15-16 is not clear, as it is not specified how the counter can prove the amount of data flow which has been decrypted.

It is not clear which subject matter the applicant intend to protect in dependent claim 8. In order to proceed with the examination, the examiner makes the assumption that the wording of the subject matter of dependent claim 8 means that a command can be transmitted to the tamper resistant module.

## INTERNATIONAL SEARCH REPORT

etional Application No PCT/IB2004/002345

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	FICATION OF SUBJECT MATTER H04N7/167		
	o International Patent Classification (IPC) or to both national classification	ation and IPC	
	SEARCHED cumentation searched (classification system followed by classification	on symbols)	
IPC 7			
Documentat	ion searched other than minimum documentation to the extent that s	uch documents are included in the fields se	arched
Electronic d	ata base consulted during the international search (name of data bas	se and, where practical search terms used	,
EPO-In	ternal, WPI Data, PAJ		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.
X	WO 02/47356 A (DIEHL ERIC ;ANDREA PIERRE (FR); CHEVREAU SYLVAIN (FR		1,2,6, 8-10
.,	13 June 2002 (2002-06-13)		2 5 7
Y	page 3, line 16 - line 29 page 4, line 31 - page 7, line 19	,	3-5,7
	page 4, Time 31 - page 7, Time 19 page 8, line 12 - line 20 page 9, line 17 - line 21		
γ	EP 1 263 230 A (VISA INTERNAT SER	VICE ASS)	4,5
•	4 December 2002 (2002-12-04) column 9, line 40 - column 10, li	ne 11	,,-
	column 15, line 46 - column 16, l	ine 19	
Y	US 2002/048367 A1 (MAILLARD MICHE	L)	3,5,7
	25 April 2002 (2002-04-25)	50	
	page 4, paragraph 58 - paragraph page 3, paragraph 36 - page 4, pa		
	52	<b></b>	
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Furti	ner documents are listed in the continuation of box C.	Palent family members are listed in	n annex.
Special ca	legories of cited documents :	*T* later document published after the inte	mational filing date
	ent defining the general state of the art which is not lered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or the invention	ory underlying the
	document but published on or after the international	'X' document of particular relevance; the c cannot be considered novel or cannot	
*L* docume	nt which may throw doubts on priority claim(s) or	involve an inventive step when the do	cument is taken alone
dtatio	n or other special reason (as specified) ant referring to an oral disclosure, use, exhibition or	"Y" document of particular relevance; the c cannot be considered to involve an inv document is combined with one or mo	ventive step when the
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*P* document published prior to the international filling date but later than the priority date claimed the same pater.  *A* document member of the same pater.			family
Date of the	actual completion of the international search	Date of malling of the international sea	rch report
3	November 2004	12/11/2004	
Name and r	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Moschetti, F	
ł	Fax: (+31-70) 340-3016	11030110001, 1	

### INTERNATIONAL SEARCH REPORT

Information on patent family members

emational Application No PCT/IB2004/002345

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Palent document dted in search report		Publication date		Patent family member(s)	Publication date
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